

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/33276

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 915 213 A (IWATSUKI MASANORI ET AL) 22 June 1999 (1999-06-22) column 5, line 17 - line 27; figure 1B column 5, line 42 - line 60; figure 6	1-3, 5-10, 12-17
Y	US 2002/079964 A1 (MIYATANI TETSUHIKO) 27 June 2002 (2002-06-27) paragraph '0138! - paragraph '0139!	4,11
Y		4,11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
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- "P" document published prior to the International filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

Date of mailing of the International search report

18 March 2004

29/03/2004

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5915213	A	22-06-1999	JP	9186614 A		15-07-1997
US 2002079964	A1	27-06-2002	JP	2002076785 A		15-03-2002
			EP	1191685 A2		27-03-2002
			US	2002041209 A1		11-04-2002